

IP IR D/N CCD Outdoor PoE Bullet Camera (DC 12V / PoE)

Ver. 2012/3/12





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0. Precautions

Read these instructions

You should read all the safety and operating instructions before using this product.

Heed all warnings

You must adhere to all the warnings on the product and in the instruction manual. Failure to follow the safety instruction given may directly endanger people, cause damage to the system or to other equipment.

Servicing

Do not attempt to service this video device yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

Trademarks

All names used in this manual are probably registered trademarks of respective companies.

Liability

Every reasonable care has been taken during the writing of this manual. Please inform your local office if you find any inaccuracies or omissions. We cannot be held responsible for any typographical or technical errors and reserve the right to make changes to the product and manuals without prior notice.

FCC/CE Regulation

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the users will be required to correct the interference at their own expense.



1. Introduction

Package Contents

ACM-1431 Series



(No Bracket Included)

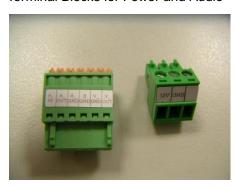
Product CD



Warranty Card



Terminal Blocks for Power and Audio





Features and Benefits

This is a cutting-edge digital video surveillance camera. It can compress and transmit real time images with outstanding image quality (30 FPS @ D1, 720 x 480 NTSC 720 x 576 PAL) through a standard TCP/IP network. This camera is your best choice to build an intelligent IP surveillance system.

MPEG-4/MJPEG Dual Compression

This device supports two compression formats, MPEG-4 and MJPEG. It brings superior image quality at 3 frames per second up to resolutions of D1 (720 x 480) and VGA (640 x 480).

Built-in Hardware Motion Detection

No more external motion sensors are required. You may assign up to 3 video motion detection areas. By tuning the object size and sensitivity, it will reliably detect objects passing though in view. Hardware motion detection also offers better sensitivity and faster response time than software motion detection.

Powerful Bundled Surveillance Software

To extend the capabilities of the camera, a powerful surveillance program is included in the package for free. Users can easily use an existing PC as a digital video recorder. Scheduled recording and manual recording keep every important video recorded in the local hard disk. Reliable and accurate motion detection with instant warning enables immediate response in every condition. Quick and simple search and playback function lets you easily find the images and video you want.

Software Development Kit Support

This camera can be integrated or controlled by applications from third party software developers. Software developers can save considerable efforts by using our Streaming Library or ActiveX control. Please contact us for details on integration support.

Digital Time Code Embedded

The "Digital Time Code Embedded" function records video time in the video stream. Therefore, each image frame is marked with its original recording time. It is very useful when users want to find the video at an exact time or between a certain time intervals.



Safety Instructions

Don't use the power supply with other voltages

This device is likely to be damaged or damage other equipments / personnel, if you use a power supply with different voltage than the one included with this device. All warranty of this product will be voided in the situations above.

Cleaning

Disconnect this video product from the power supply before cleaning.

Attachments

Do not use attachments not recommended by the video product manufacturer as they may cause hazards.

Water and Moisture

Do not use this video product near water, for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool and the like.

Don't use accessories not recommended by the manufacturer

Only install this device and the power supply in a dry place protected from weather

Servicing

Do not attempt to service this video product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

Damage Requiring service

Disconnect this video product from the power supply immediately and refer servicing to qualified service personnel under the following conditions.

- 1) When the power-supply cord or plug is damaged
- 2) If liquid has been spilled, or objects have fallen into the video product.
- 3) If the video product has been directly exposed to rain or water.
- 4) If the video product does not operate normally by following the operating Instructions in this manual. Adjust only those controls that are covered by the instruction manual, as an improper adjustment of other controls may result in damage, and will often require



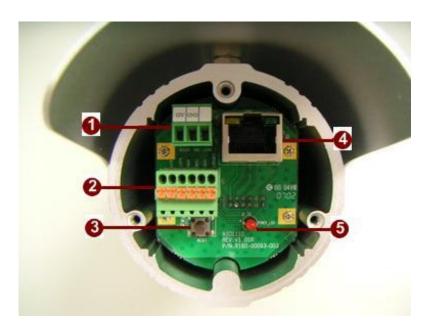
extensive work by a qualified technician to restore the video product to its normal operation.

Safety Check

Upon completion of any service or repairs to this video product, ask the service technician to perform safety checks to determine if the video product is in proper operating condition.



Physical description



1) Power Input

Connect the power adaptor here if your power input is DC12V.



PIN	NAME	DESCRIPTION
1	12V	DC Power Input
2	GND	Ground Pin

If your power input is AC24V. Please follow the description on the connector to connect to power.

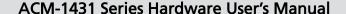


PIN	NAME	DESCRIPTION	
1	N	AC Power Input	
2	L		
3	GND	E-Ground of power	

2) Audio Terminal Connector

This IP Camera supports Audio input / output via terminal block.





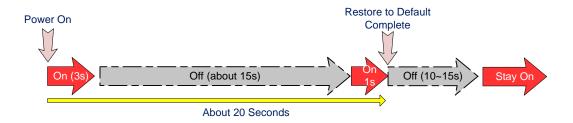


3) Reset Button

Step 1: Switch off IP device by disconnecting the power cable

Step 2: Press and continue to hold the Reset Button (with a sharp tipped object, like a pen.)

Step 3: Reconnect the power cable while continuing to hold the reset button. The red Power LED light will flash on for 3 second first, turn off for about 15 seconds, flash on for another second and turn off again. By this time the reset to default operation is already completed. This will take around 20 seconds from power up. You may then release the reset button. This length of time fluctuates slightly with the environment. The Power LED light will come back on and stay on after a few more seconds. The unit will start up with factory default settings automatically.



4) Ethernet Port

The IP device connects to the Ethernet via a standard RJ45 connector. Supporting NWAY, this IP device can auto detect the speed of local network segment (10Base-T/100Base-TX Ethernet).

5) Power LED Indicator

The LED indicator lights up once the power is turned up. It will light up again when the device is fully booted up.



Installation Procedure

Remove the back cover by unscrewing the three attachments



Remove the sunshade by unscrewing the two screws





Insert the network cable through the back cover and wire gland



Assemble the gland / network cable with the back cover



Attach to the brackets and connect the cables according to the physical description section



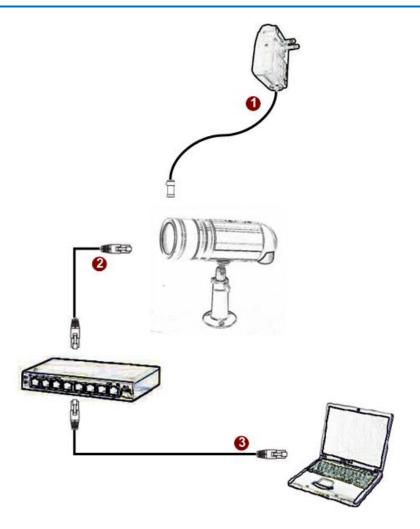
Remove the front cap and adjust the focus / zoom



Restore the front cap, adjust the sunshade position on top of the camera and secure the back cover.



Basic Connections



Follow the procedures below to connect the IP device to the respective apparatuses.

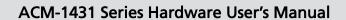
If you have a PoE (Power over Ethernet) supported switch or injector:

- Connect your IP Camera to the Switch / Injector by CAT5 or CAT6 cables with RJ45 connector.
- 2) Connect your Switch / Injector to PC with another CAT5 / CAT6 network cable.

If your switch does not support PoE, and you are powering the camera with power adaptor:

- 1) Connect the power adaptor to IP Camera
- 2) Connect IP device's Ethernet port to Network switch (via RJ45 connectors).
- 3) Connect a PC to the Ethernet switch (via RJ45 connectors)

Please refer our PoE Guide for more details on Power over Ethernet related concepts.





Product Specification

		ACM-1431	ACM-1432
	Device	Sony Exvie	w HAD CCD
	Size		inch
Image			
90	Effective Pixels	811(H) x 508(V) (NTSC) 795(H) x 596(V) (PAL)	
	Horizontal Resolution	540 TVL	
	Color	Color mode automatically switched to B/W mode under 4 Lux	
	B/W	0.05 Lux at F1.2 (30IRE,SAGC)	
Min. scene	IR Sensitivity	from 700 nm to 1100 nm	
Illumination	IR LED	IR LED x24 (850 nm)	
	CDS Sensor	Yes	
	IR Working Distance	20 ~30 M (30 IRE)	
	Focal Length	f3.7 ~ 12 mm / F1.4	
Lens	Viewing Angle	78.1° ~ 23.3° (Horizontal)	
Synchronization	Sync. System	Internal	
Day/Night functions	Mechanical IR Cut Filter	Yes	
	Motion Detection	Yes (3 Windows)	
	Electronic shutter	1/60~1/100,000 sec. (NTSC); 1/50~1/100,000 sec. (PAL)	
	Fixed Shutter (Manual)	1/60 ~ 1/10,000 sec. (NTSC); 1/50 ~ 1/10,000 sec. (PAL)	
	Flickerless	1/120 sec (NTSC); 1/100 sec (PAL)	
Functions	BLC	Yes	
	AGC	Automatic (User defined)	
	White Balance	AUTO, INDOOR1, INDOOR2, OUTDOOR1, OUTDOOR2, HOLD, MANUAL	
	Auto Iris Control	DC Iris	
S/N Ratio	S/N Ratio	Better than 50 dB	
	Compression	MPEG-4 SP, MJPEG selectable	
Video Compression	Picture Resolution	Full D1 (720x480 in NTSC, 720x576 in PAL) VGA (640x480 in NTSC, 640x480 in PAL) CIF (352x240 in NTSC, 352x288 in PAL) QCIF (160x112 in NTSC, 176x144 in PAL)	
	Bit Rate	28K ~ 3M bps	
	Dit Nate	30 fps at full D1 resolution (NTSC)	
	Image Frame Rate	25 fps at full D1 resolution (NTSC)	
Video Output	Composite Output	CVBS, 1.0Vp-p with 75 Ω loading, terminal block	
	Compression	8kHz, Mono, PCM	
Audio Input	Audio Line Input	Unbalanced, 1.4 Vp-p, 1Vrms, terminal block	
	Compression	8kHz. Mono. PCM	
Audio Output	Audio Line Output	Unbalanced, 1.4Vp-p, 1Vrms, terminal block	
E / 11/0	Reset Button	Factory Default	
External I/O	LED	System Status	
Casing	IP66 Rated	Weatherproof casing with IP66 standard	
	Ethernet Port	Ethernet(10/100 Base-T), RJ-45 connector	
Network	Protocol	TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP	
	Web Browser	Microsoft Internet Explorer 6.0 or above	
Software	SDK	ACTi SDK-10000	
	Security	Password Protection: Configured by the Administrator	
Operating	Temperature	-20 °C ~ 50 °C (-4 °F ~ 122 °F)	
	Power Requirement	PoE (IEEE 802.3af) with Class 3	AC 24 V±10%
Power	Power Consumption	6.48 W (DC 12V) w/ IR ON 8.64 W (PoE) w/ IR ON	6.48 W (DC 12V) w/ IR ON 10.56 VA (AC 24V) w/ IR ON
Dhysical	Dimensions (ØxL)	77mm x 220 mm (3.03"x 8.66")	
Physical	Weight	685g (1.51lb), with sunshield	
Approvals	Certificate	CE, FCC, IP66	



2. Accessing Camera

If you have DHCP server / router in your network:

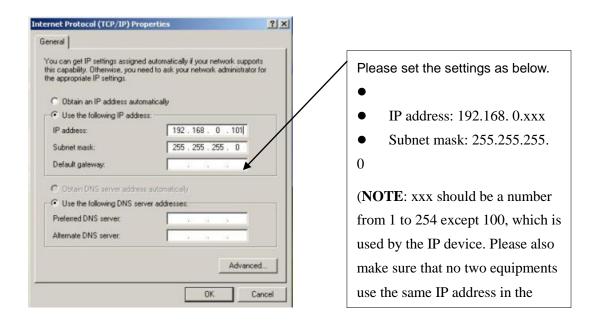
Many network server / routers are able to automatically provide IP addresses through DHCP. If you are using such a network, just plug in your computer and IP Camera into the network and your IP device will acquire network address by itself. Find and access the device with our IP Utility program. You may download it at:

http://www.acti.com/product/detail/Software/ACTi_Utility_Suite

If you do <u>NOT</u> have DHCP server / router in your network:

- Configure your PC to use the same subnet by changing your PC's IP address to the subnet with prefix 192.168.0.XXX. The last number should be anything from 1 to 254 except 100 and other occupied IP addresses. Subnet mask should be 255.555.255.0.
- The default IP used by this device is 192.168.0.100. Please make sure your PC is
 <u>NOT</u> using this address and that no two equipments use the same IP address in
 the network.
- Change your IP address by going to Control Panel ->Manage Network Connections ->
 Right click on the connection to change -> Option -> TCP/IP IPv4 Properties.





- 4. Open Internet Explorer (Version 6.0 or above), and type in the Default IP: 192.168.0.100
- 5. When you see the login window, please input default user and password:

Default User: Admin



Password: 123456

6. After logging in, you will see the video from camera. To go to the main menu, click the "Setup" button on the top left.



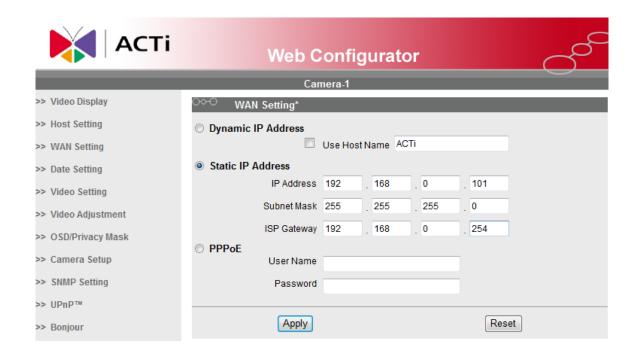


If you are using a single camera, this is enough to access the device.

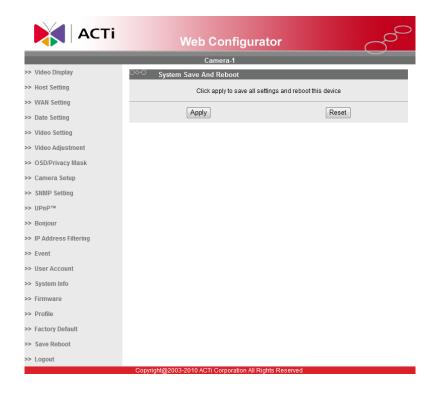
If you are using multiple devices, you need to change the current device to another unused IP address, so that when the next device is connected to the network, no two devices use the same IP. Please perform the following steps.

- 7. Go to WAN Setting
- 8. Change the IP mode to Static.
- Change the IP to 192.168.0.101 or any other unused IPs. Do NOT use the PC's IP address or 192.168.0.100.). If this is not the first device you add to the network, please also avoid other devices' IPs.





- 10. Click "Apply"
- 11. Please go to Save & Reboot, and click "Apply". Internet Explorer will close after a few seconds. This is normal.





- 12. Wait for 30 seconds, and open IE again to connect to the **new IP**. (In this example, 192.168.0.101). For the second device or more you add into the network, please type the correct IP.
- 13. Adjust the default Video setting by going to Video Setting

